

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. **(original)** A transparent, polymerisable chemical composition comprising 10% to 60% of transparent hydroxylated acrylic resins, 10% to 70% of monomers selected from oligoethers and acrylate or methacrylate monomers, 0% to 90% of solvents and 0.1% to 10 % of photoinitiators which initiate the polymerisation procedure when stimulated by light radiation.

2. **(original)** The composition according to claim 1, comprising 20% to 50% resin, 20% to 70% monomers, 5% to 50% solvents and 0.5% to 6% photoinitiators.

3. **(currently amended)** The composition according to claim 1 ~~claims 1 or 2~~, wherein said resins are selected from the group consisting of acrylic, polyester acrylate, urethane acrylate aromatic or aliphatic resins or mixtures thereof.

4. **(currently amended)** The composition according to ~~any of the claims 1 to 3~~ claim 1, wherein said resins have carboxylic functionality ~~comprised of between 1 to 6;~~ preferably ~~comprised of between 2 and 6.~~

5. **(currently amended)** The composition according to ~~any of the claims 1 to 4~~ claim 1, wherein said methacrylate monomers and oligoethers are selected from the group ~~constituted by~~ consisting of Isobornyl methacrylate (IBOMA), Tetraethyleneglycol dimethacrylate (TTEGDMA), and combinations thereof, whilst the acrylate oligoethers and monomers are selected from the group consisting of Isobornyl diacrylate (IBOA), 1,6 Hexanediol acrylate (HDDA), Trimethylolpropane triacrylate (TMPTA), Tris(2-Hydroxyethyl)isocyanurate triacrylate (THEICTA), Tricyclodecane dimethanol diacrylate (TCDDMDA), and combinations thereof.

6. **(original)** The composition according to claim 5, wherein said monomers have functionality comprised of between 1 and 5.

7. **(currently amended)** The composition according to ~~claims~~ claim 5 or 6, wherein said monomers comprise N-vinyl-2-pyrrolidone.

8. **(currently amended)** The composition according to ~~any of the claims 1 to 7~~

**claim 1**, wherein said solvents ~~are represented by the~~ are selected from the group consisting of esters, ketones or aromatic hydrocarbons normally used in the varnishes sector, and combinations thereof.

**9. (currently amended)** The chemical composition according to ~~any of the claims 1 to 8~~ **claim 1**, wherein said photoinitiators are selected from the group consisting of benzophenone derivatives, ketone derivatives, methyl esters and phosphinoxides, or mixtures thereof.

**10. (original currently amended)** The composition according to claim 9, wherein said benzophenone derivatives are selected from the group consisting of 4-methylbenzophenone and 2,4,6-trimethylbenzophenone and combinations thereof, said ketone derivatives are selected from the group consisting of 1-hydroxy-cyclohexyl-phenyl-ketone, 2,2-dimethoxy-1,2-diphenylethan-1-one, 2-hydroxy-2-methyl-1-phenyl-propan-1-one and combinations thereof, said methyl esters are ~~the methyl esters of~~ phenyl glyoxylic acid and said phosphinoxides are 2,4,6-trimethylbenzoyl-diphenyl-phosphine oxide.

**11. (currently amended)** The composition according to ~~any of the claims 1 to 10~~ **claim 1**, also further comprising additives in quantities from 0% to 10%, ~~preferably from 0.1% to 3%.~~

**12. (original)** The composition according to claim 11, wherein said additives are antioxidants, protectives against solar radiation or products which confer hydro-repellance.

**13. (original)** The composition according to claim 12, wherein said antioxidants are IRGANOX 1010, said protectives are TINUVIN 400, said products conferring hydro-repellance are BYK UV 3500.

**14. (currently amended)** A method for the preparation of the chemical composition according to ~~any of the claims 1 to 13~~ **claim 1**, comprising the following sequential stages steps of:

a) preparing a solution ~~comprising~~ by adding at least one resin and a suitable solvent or monomer according to ~~any of the claims from 1 to 4 and 8;~~

b) stirring the solution slowly for a time comprised of between 1' and 20' at a temperature comprised of between 58°C and 70°C;

c) adding at least one photoinitiator, according to ~~any of the claims 1, 2, 9 and 10,~~ to

the solution following solubilisation in a suitable solvent;

d) mixing for a time comprised of between 5 and 20 minutes so as to obtain a homogenous solution and taking care to keep the solution protected from exposure to solar or artificial light.

**15. (currently amended)** The method according to claim 14, wherein ~~stage a)~~ is ~~prepared with~~ the step of preparing a solution comprising further comprises adding from 10 to 60 parts of resin and from 40 to 90 parts of solvents or monomers; and

the step of adding at least one photoinitiator further comprises adding ~~in stage e)~~ the photoinitiators previously solubilised in solvents at 40 – 60%, ~~are~~ and added to the solution in a percentage of 1 – 6%.

**16. (currently amended)** A polymerisation procedure for the chemical composition according to ~~any of the claims 1 to 13~~ claim 1, comprising the steps following sequential stages of:

- applying the chemical composition ~~laying an appropriate amount~~ onto a substrate ~~to be treated with the composition according to any of the claims 1 to 13;~~
- applying UV-A, UV-B or UV-C irradiation for a time comprised of between 2 seconds and 15 minutes.

**17. (currently amended)** The procedure according to claim 16, wherein the ~~application of step of applying~~ UV-A irradiation is ~~carried out with lamps which emit~~ further comprises the step of emitting radiation between 280 and 450 nm.

**18. (currently amended)** The procedure according to claim 17, wherein ~~said lamps are of the~~ step of emitting radiation further comprises emitting radiation with a fluorescence or metallic iodide type lamp.

**19. (original)** The procedure according to claim ~~16~~ 17, wherein the step of applying ~~when~~ UV-B and UV-C irradiation further comprises that step of emitting irradiation with ~~lamps are used, these are~~ equipped with special filters for the neutralisation of the B and C type radiation.

**20. (currently amended)** The procedure according to ~~any of the claims 16 to 19~~ claim 16, wherein ~~when lamps fixed onto a suitable support are used, the~~ the step of applying irradiation further comprises using ~~power outputs of said lamps are comprised~~ with power

outputs of between 100W and 5KW.

**21. (currently amended)** The procedure according to ~~any of the claims 16 to 19~~ **claim 16**, wherein the step of applying irradiation further comprises using multi-lamp systems with variable power outputs from 200W up to 5KW per lamp unit ~~are used, also using more units.~~

**22. (currently amended)** The procedure according to ~~any of the claims 16 to 19~~ **claim 16**, wherein the step of applying irradiation further comprises using one or more lamps with a the power output of the lamps that varies from 0.1W/cm<sup>2</sup> to 20W/cm<sup>2</sup>.

**23. (currently amended)** The procedure according to ~~any of the claims 16 to 19~~ **claim 16**, wherein the step of applying irradiation further comprises mounting UV emitting lamps ~~are mounted~~ onto robotised rigs which are able to irradiate complex profile surfaces in a homogeneous manner by carrying out a scan of the surface to be irradiated with a scanning speed directly proportional to the power output of the UV system used.

**24. (currently amended)** The procedure according to claim 23, wherein the step of applying irradiation further comprises using the lamps used have with variable power outputs of between 2.5KW to 25KW.

**25. (currently amended)** The treatment method for bodywork or parts of the bodywork of vehicles, comprising the steps following sequential stages of:

i) providing a polymerisable chemical composition according to ~~any of the claims 1 to 13~~ **claim 1**;

ii) applying a layer of said chemical composition onto the surfaces to be treated;

iii) leaving the solvent contained in said layer of said chemical composition to evaporate;

iv) irradiating said layer with a UV radiation lamp for a sufficient time so as to substantially obtain the complete polymerisation thereof.

**26. (original)** The method according to claim 25, wherein the step of applying a layer of said chemical composition further comprises stage ii) ~~is carried out through the~~ depositing in the form of a film previously diluted with an appropriate solvent, said film having a thickness which can vary between 10 microns to 100 microns and a viscosity which can vary between 12 to 18 seconds in a Ford #4 cup.

**27. (currently amended)** The method according to ~~claims 25 or 26~~ claim 25, wherein the step of leaving the solvent to evaporate comprises leaving the solvent to evaporate ~~stage iii)~~ varies from 1 minute to 5 minutes.

**28. (currently amended)** The method according to ~~any of the claims 25 to 27~~ claim 25, wherein the step of irradiating further comprises applying UV-A, UV-B or UV-C irradiation for a time comprised of between 2 seconds and 15 minutes ~~stage iv)~~ ~~is carried out according to the polymerisation process according to any of the claims 16 to 24~~ claim 16.

**29. (currently amended)** The method according to ~~any of the claims 25 to 28~~ claim 25, further comprising the following steps prior to the application of the polymerisable chemical composition:

- reshaping or replacing the damaged parts of the bodywork;
- filling and sanding the surface of said damaged part;
- applying one or more primers onto said surface and the relevant polymerisation;
- preparing said surface for the application of "base coat" using abrasive papers;
- applying the "base coat".

**30. (currently amended)** The method according to ~~any of the claims 25 to 29~~ claim 25, further comprising a ~~final stage consisting the step~~ of finishing.

**31. (currently amended)** The use of a transparent, polymerisable chemical composition according to ~~any of the claims 1 to 13~~ claim 1 for the treatment of bodywork or parts of the bodywork of vehicles.

**32. (new)** The composition according to claim 4, wherein said resins have carboxylic functionality of between 2 and 6.

**33. (new)** The composition according to claim 11, further comprising additives in quantities from 0.1% to 3%.